

METHOD AND APPARATUS FOR EFFECTING HIGH-FREQUENCY AMPLIFICATION OR OSCILLATION

ABSTRACT OF THE DISCLOSURE

An apparatus includes a distributed resonant tunneling section with a plurality of inductive portions that are coupled in series with each other between first and second nodes, such that a respective further node is present between each adjacent pair of the inductive portions. The distributed resonant tunneling section also has a plurality of resonant tunneling device portions which are each coupled between a third node and a respective one of the further nodes.